

Figure 2
Case 2:

Cable box produces one RF output with only channel 3(4). Its tuner must be used to receive and decrypt premium channels, but basic channels can bypass it.
VCR is standard.
TV has A/V inputs.
Ability to record STB output is not required.

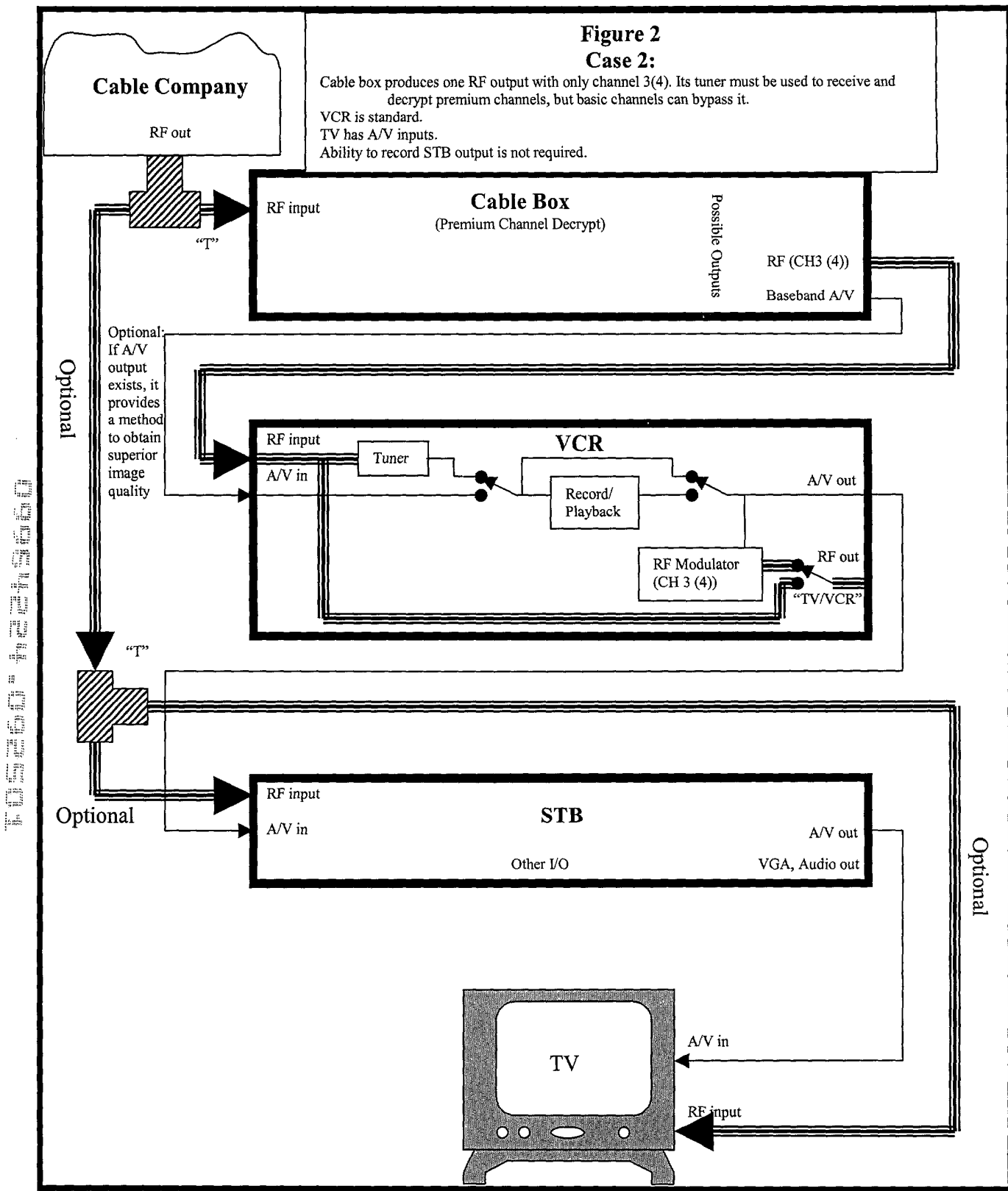
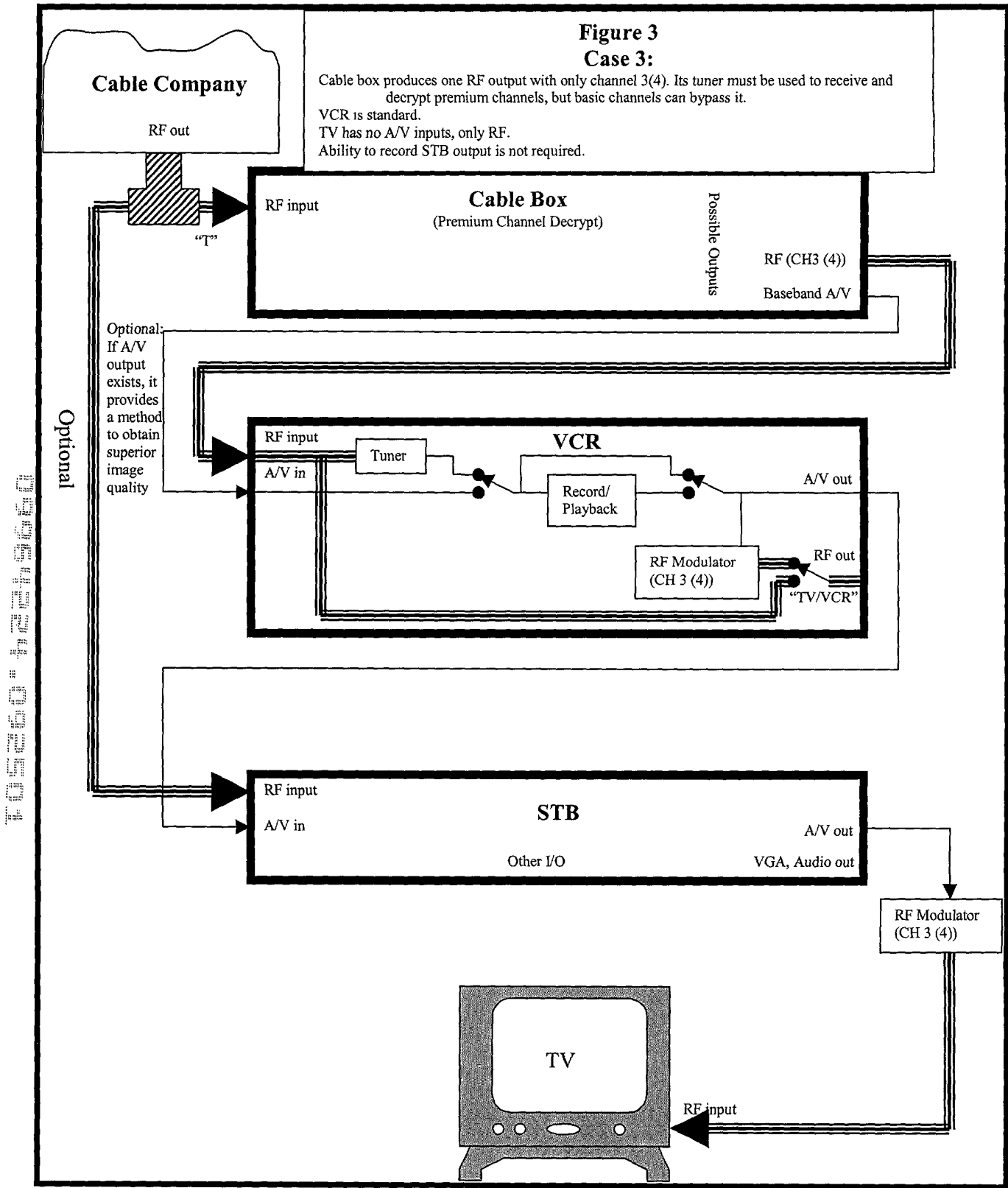


Figure 3
Case 3:

Cable box produces one RF output with only channel 3(4). Its tuner must be used to receive and decrypt premium channels, but basic channels can bypass it.
VCR is standard.
TV has no A/V inputs, only RF.
Ability to record STB output is not required.



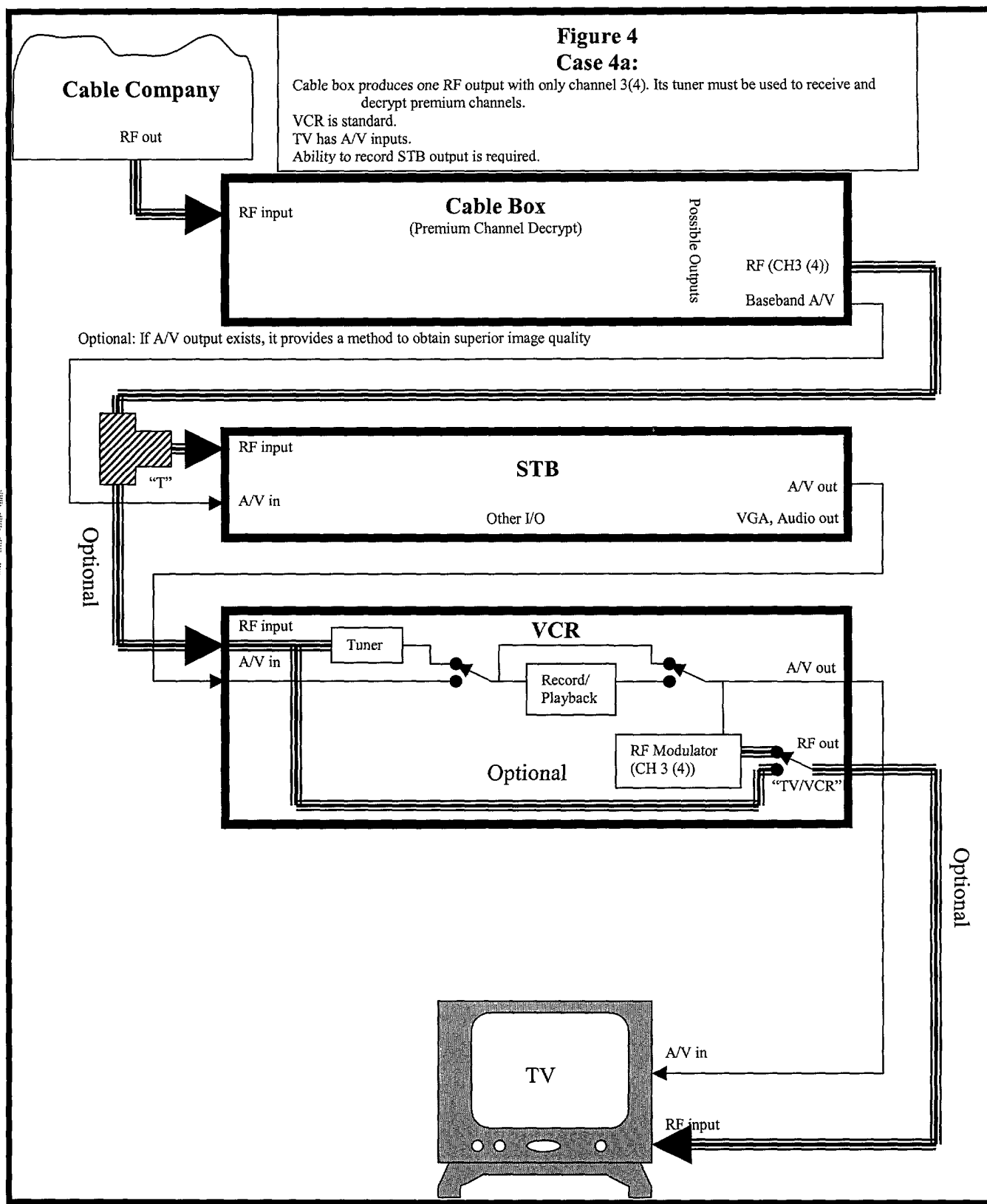


Figure 5
Case 4b:

Cable box produces A/V output (and maybe RF). Its tuner must be used to receive and decrypt premium channels, but basic channels can bypass it.
VCR is standard.
TV has A/V inputs.
Ability to record STB output is required.

Cable Company

RF out

RF input

Cable Box

(Premium Channel Decrypt)

Possible Outputs

RF (CH3 (4))

Baseband A/V

If A/V output exists, it provides a method to obtain superior image quality AND allow bypass of cable box.

RF input

STB

A/V in

Other I/O

A/V out

VGA, Audio out

Optional

RF input

Tuner

VCR

Record/
Playback

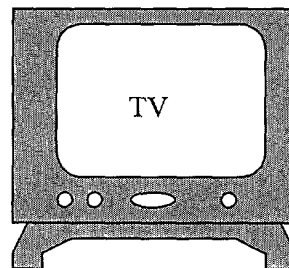
A/V out

Optional

RF Modulator
(CH 3 (4))

RF out

"TV/VCR"



TV

A/V in

RF input

Optional

Figure 6

Case 4c:

Cable box produces one RF output with only channel 3(4). Its tuner must be used to receive and decrypt premium channels, but basic channels can bypass it.

VCR is standard.

TV has A/V inputs.

Ability to record STB output is required.

Cable Company

RF out



"T"

RF input

Cable Box

(Premium Channel Decrypt)

Possible Outputs

RF (CH3 (4))

Baseband A/V

If A/V output exists, it provides a method to obtain superior image quality AND allow bypass of cable box.

Optional

RF input

A/V in

STB

Other I/O

A/V out

VGA, Audio out

RF input

A/V in

Tuner

VCR

Record/
Playback

A/V out

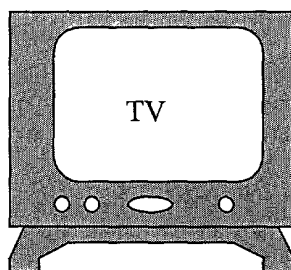
Optional

RF Modulator
(CH 3 (4))

RF out

"TV/VCR"

Optional



TV

A/V in

RF input

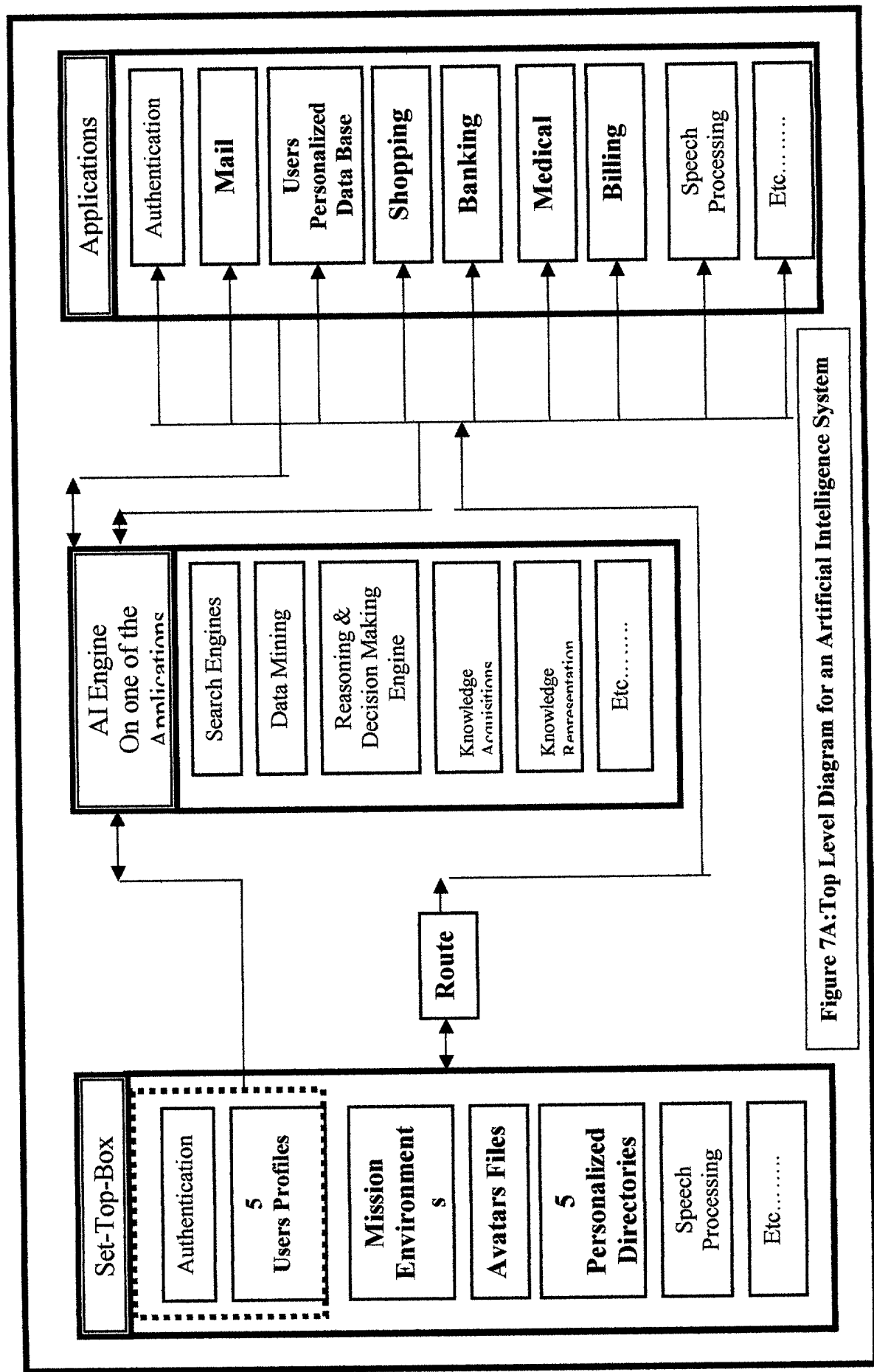


Figure 7A: Top Level Diagram for an Artificial Intelligence System

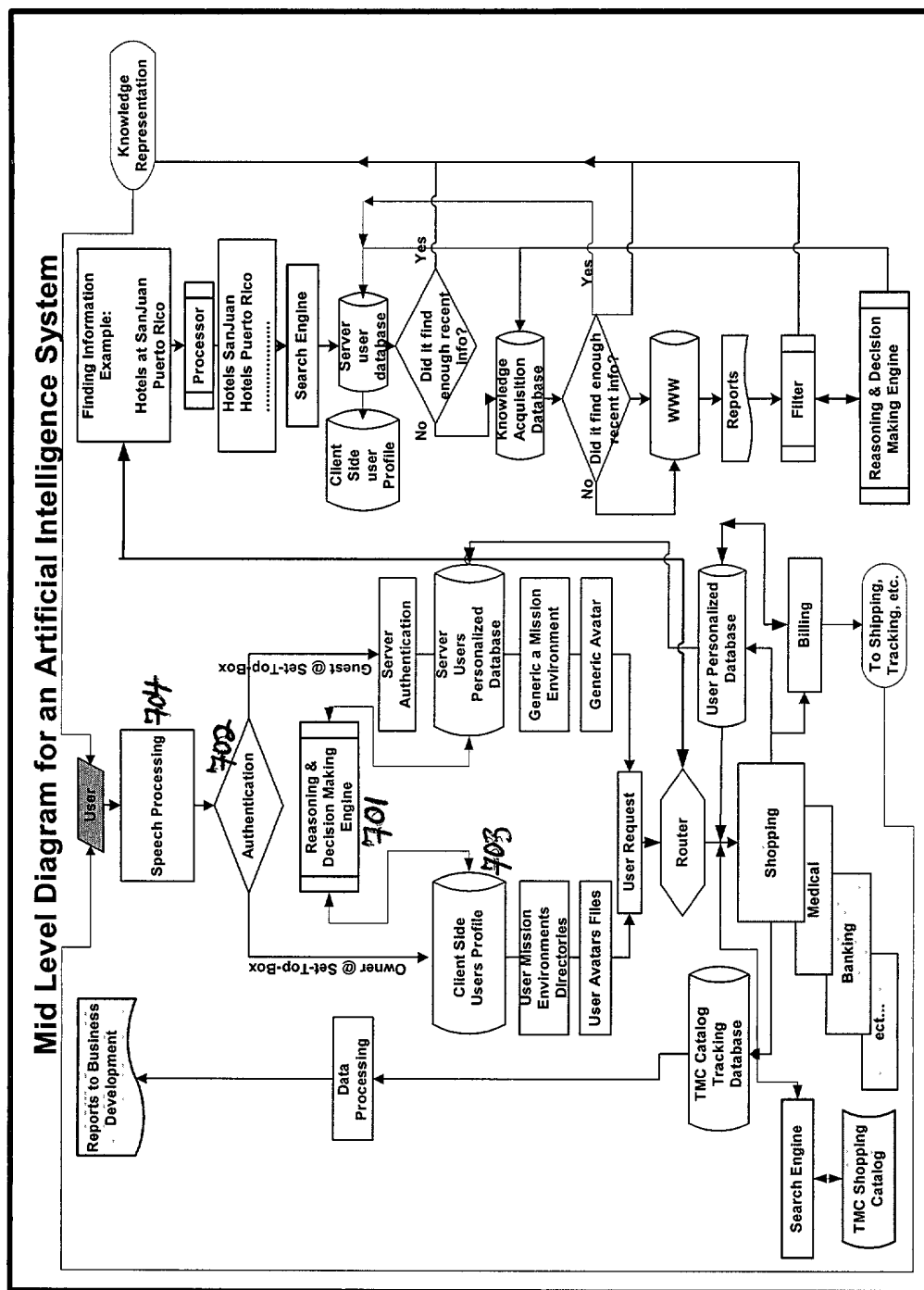


Figure 7B: Mid Level Diagram for an Artificial Intelligence

Top Level Diagram for TMC's Intelligence Center

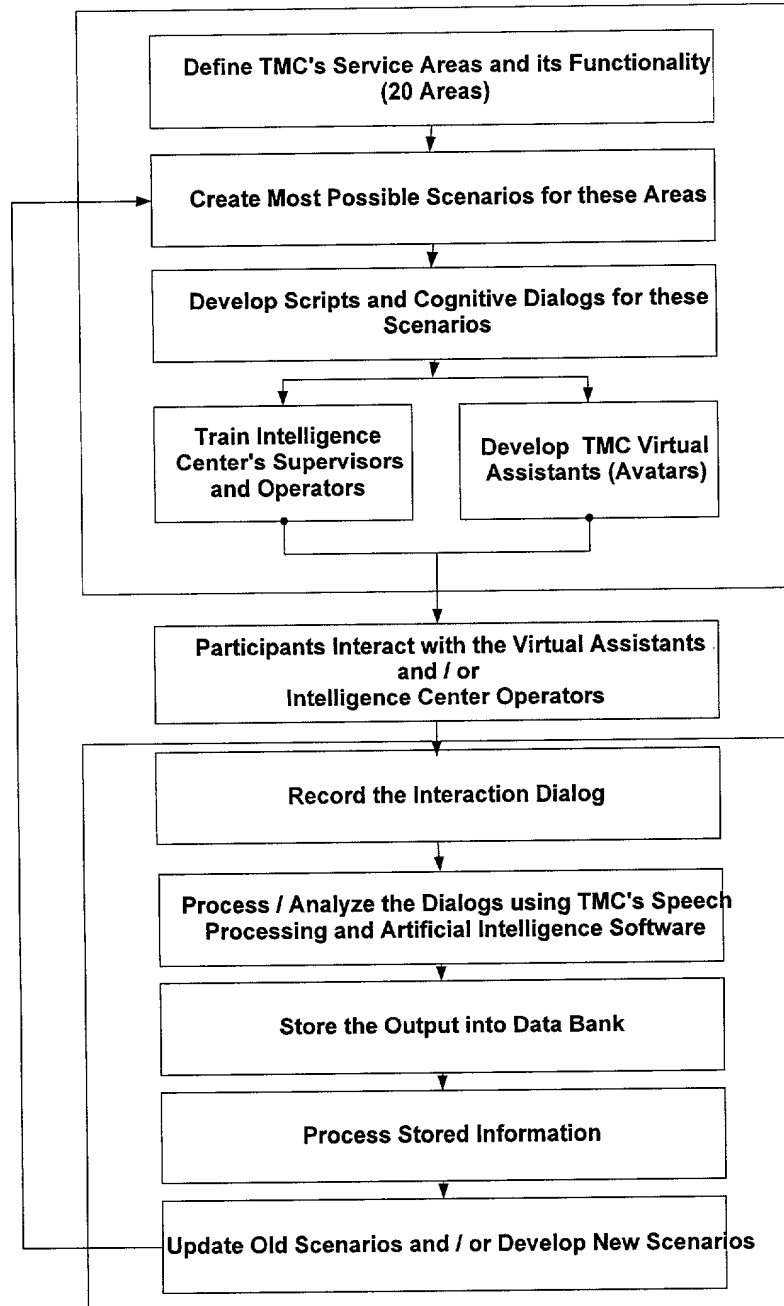
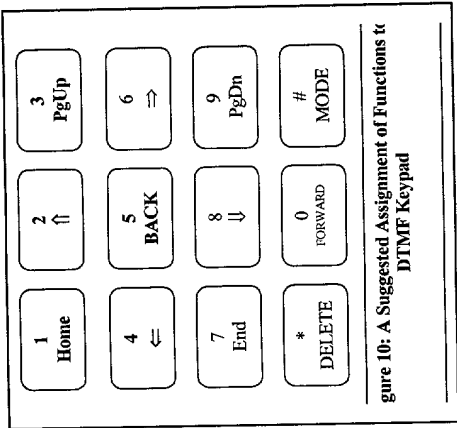


Figure 8: Top Level Diagram for TMC Intelligence Center



Figure 9: All Likely Features of the Set-Top-Box
(Assuming Modified Modem used to make a phone function as the Voice Remote).



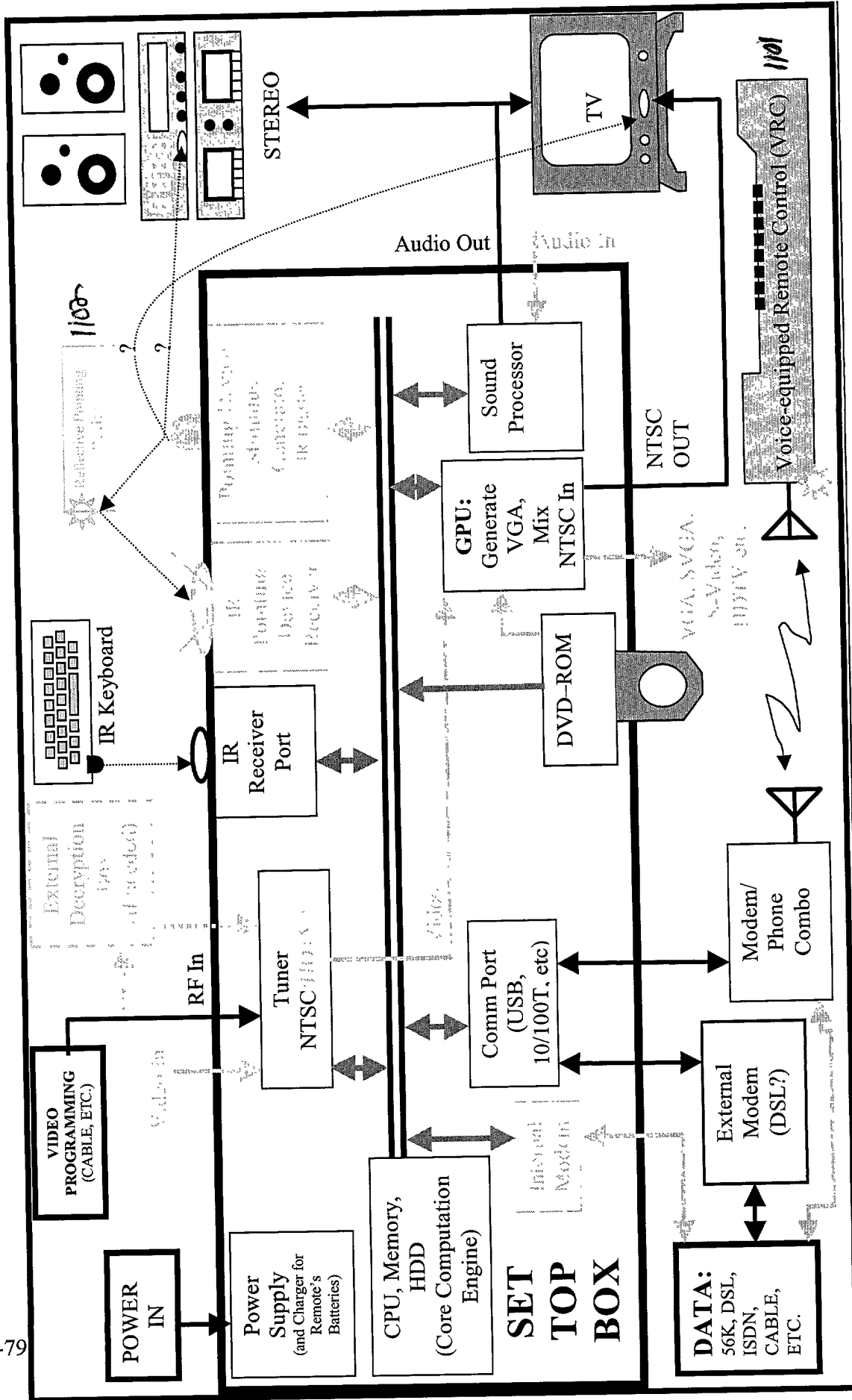


Figure 11: All Likely Features of the Set-Top-Box
(Assuming Special Phone Used as the Voice Remote).

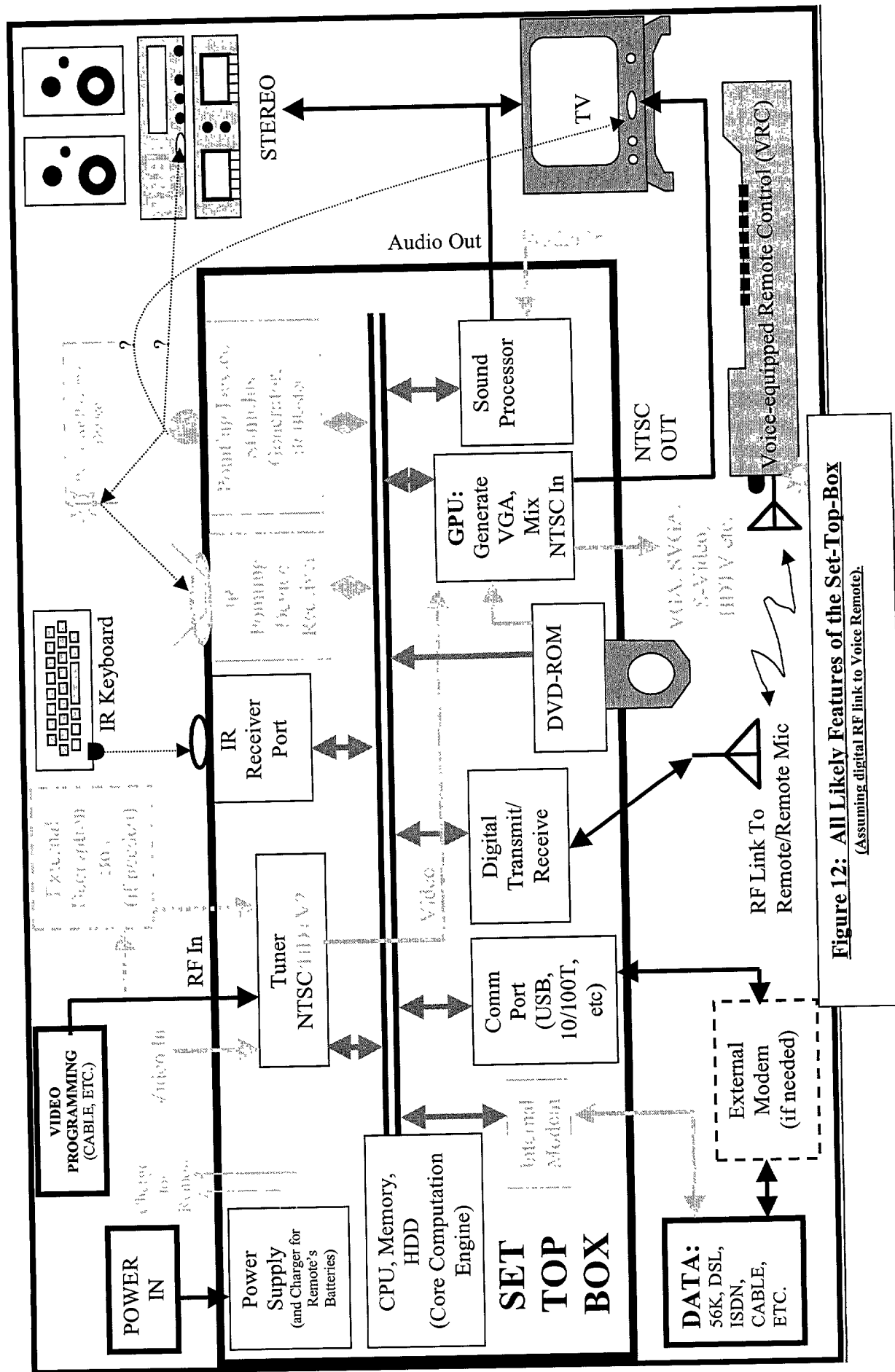


Figure 12: All Likely Features of the Set-Top-Box
(Assuming digital RF link to Voice Remote).

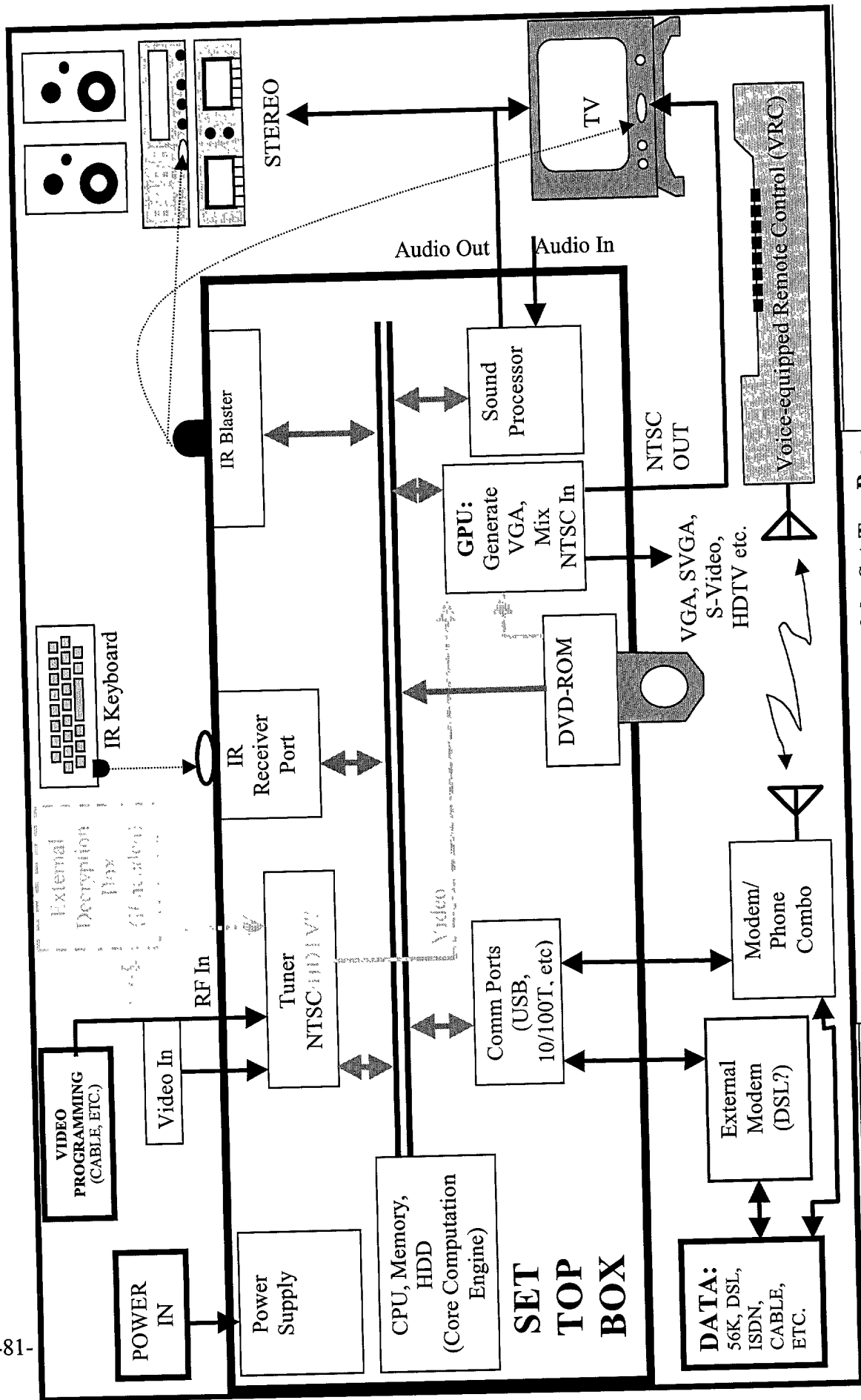


Figure 13: Preferred Configuration of the Set-Top-Box
(Assuming Special Phone Used as the Voice Remote).

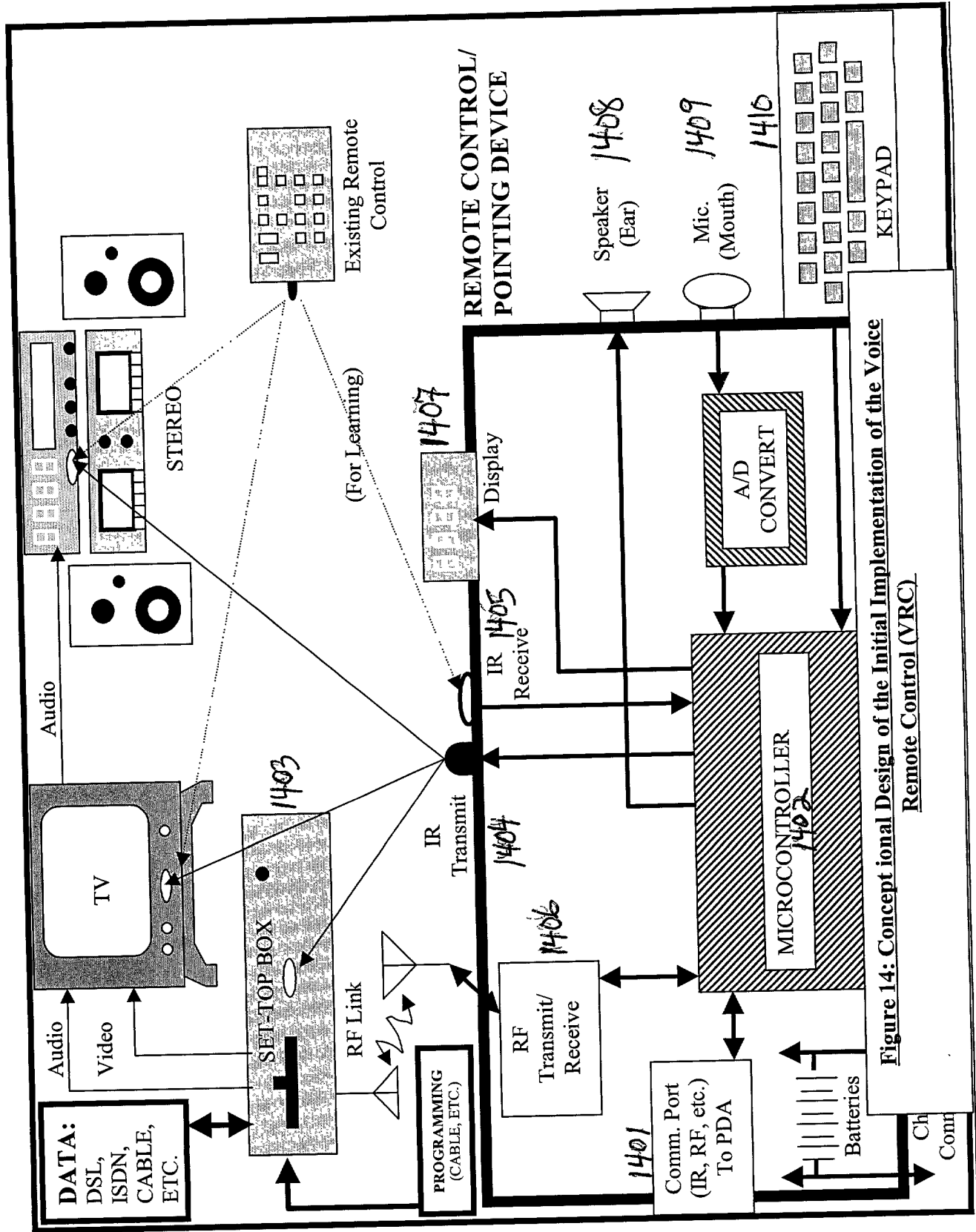


Figure 14: Conceptual Design of the Initial Implementation of the Voice Remote Control (VRC)

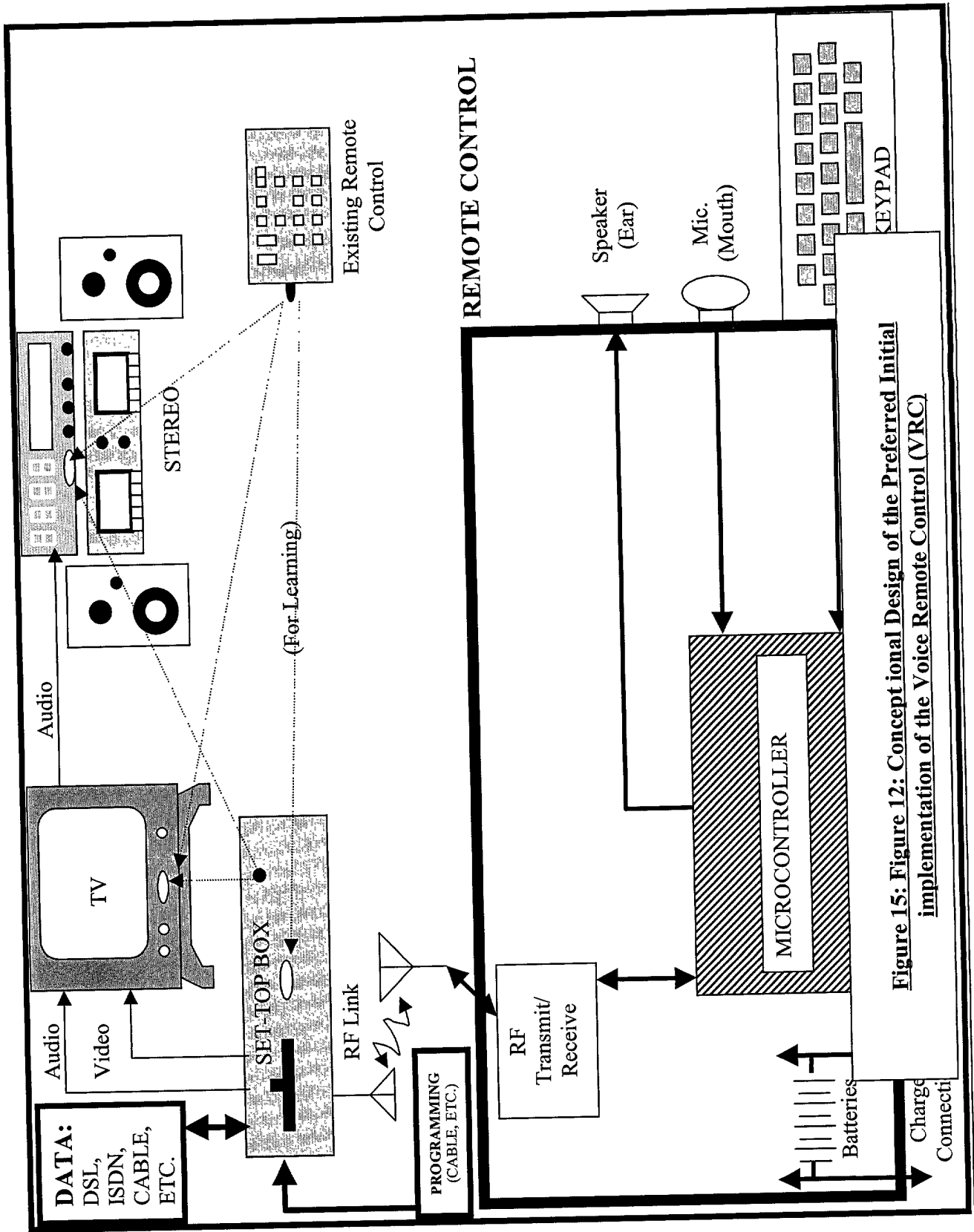
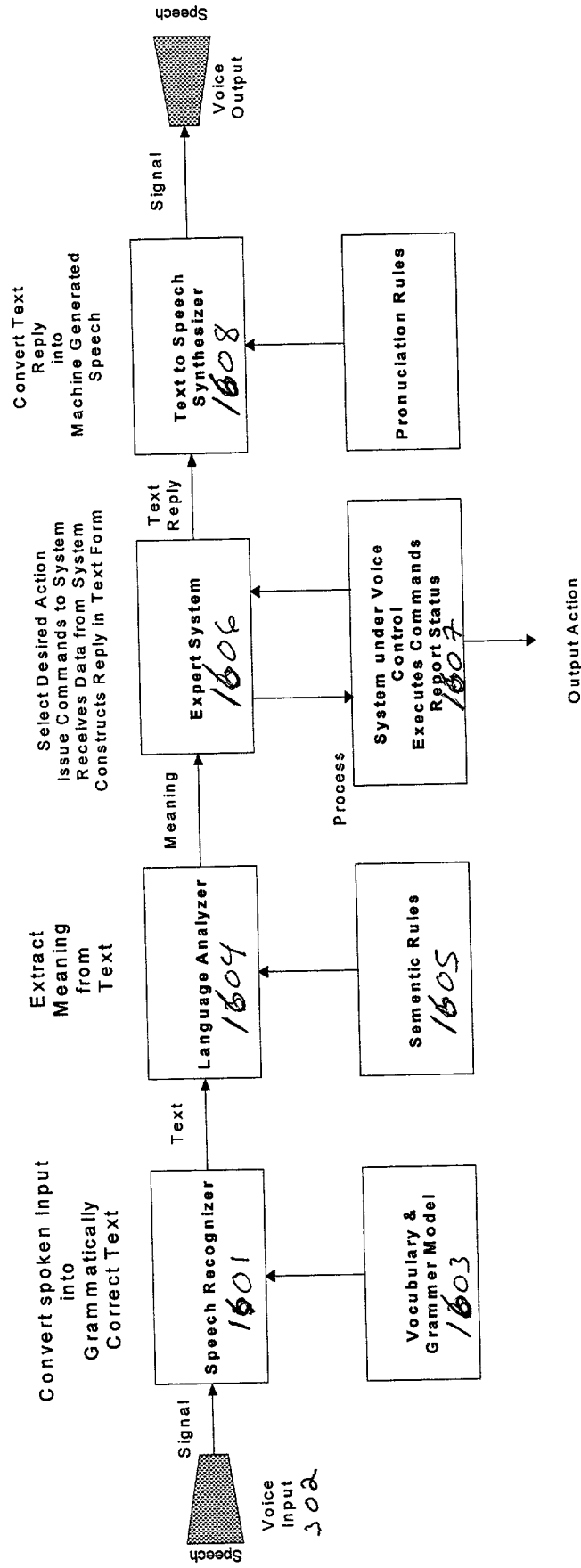


Figure 15: Conceptual Design of the Preferred Initial implementation of the Voice Remote Control (VRC)

Verbal Communication Interface Diagram



Speech Recognition and Synthesis System

FIGURE 16

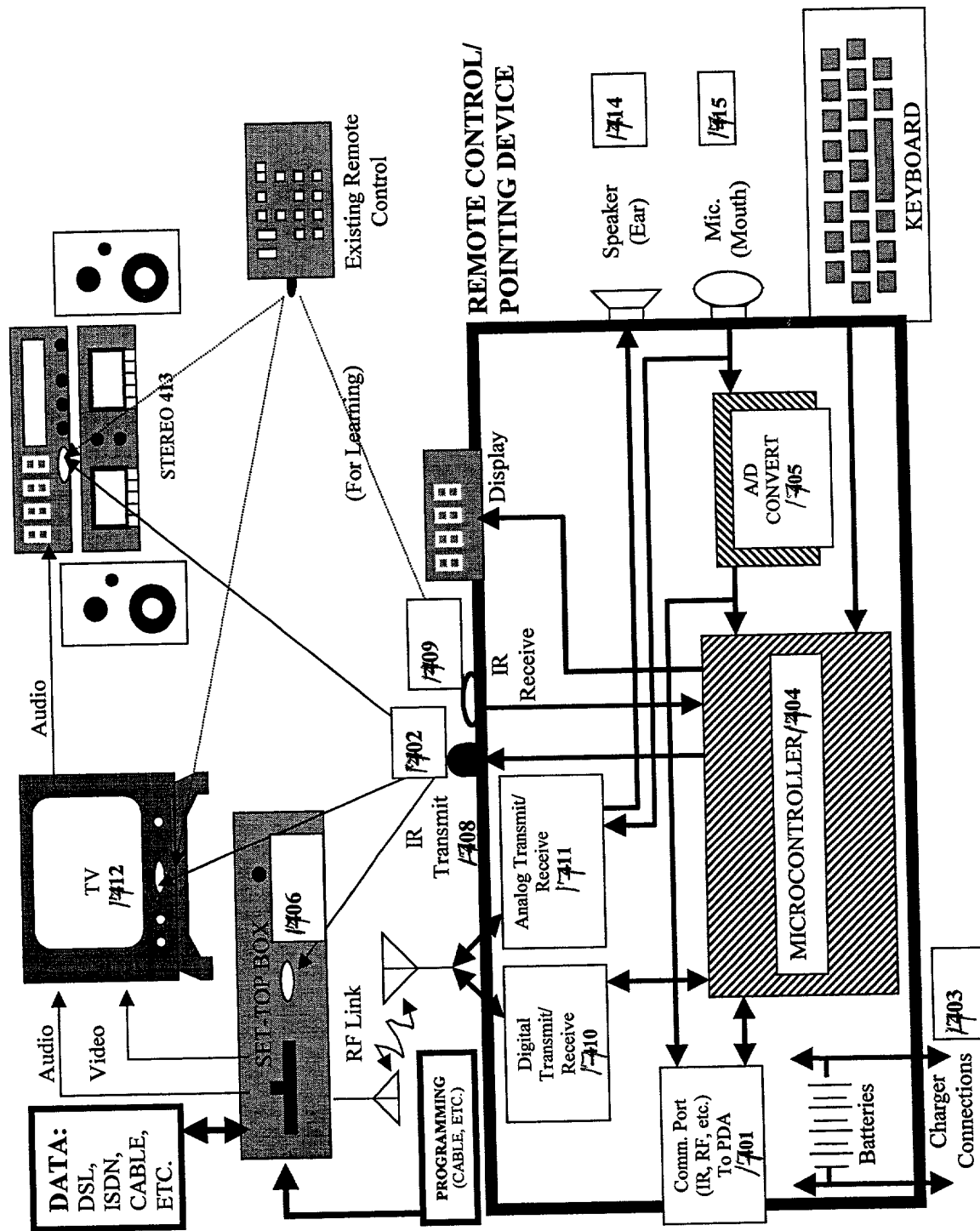


FIGURE 7

Set-Top Device

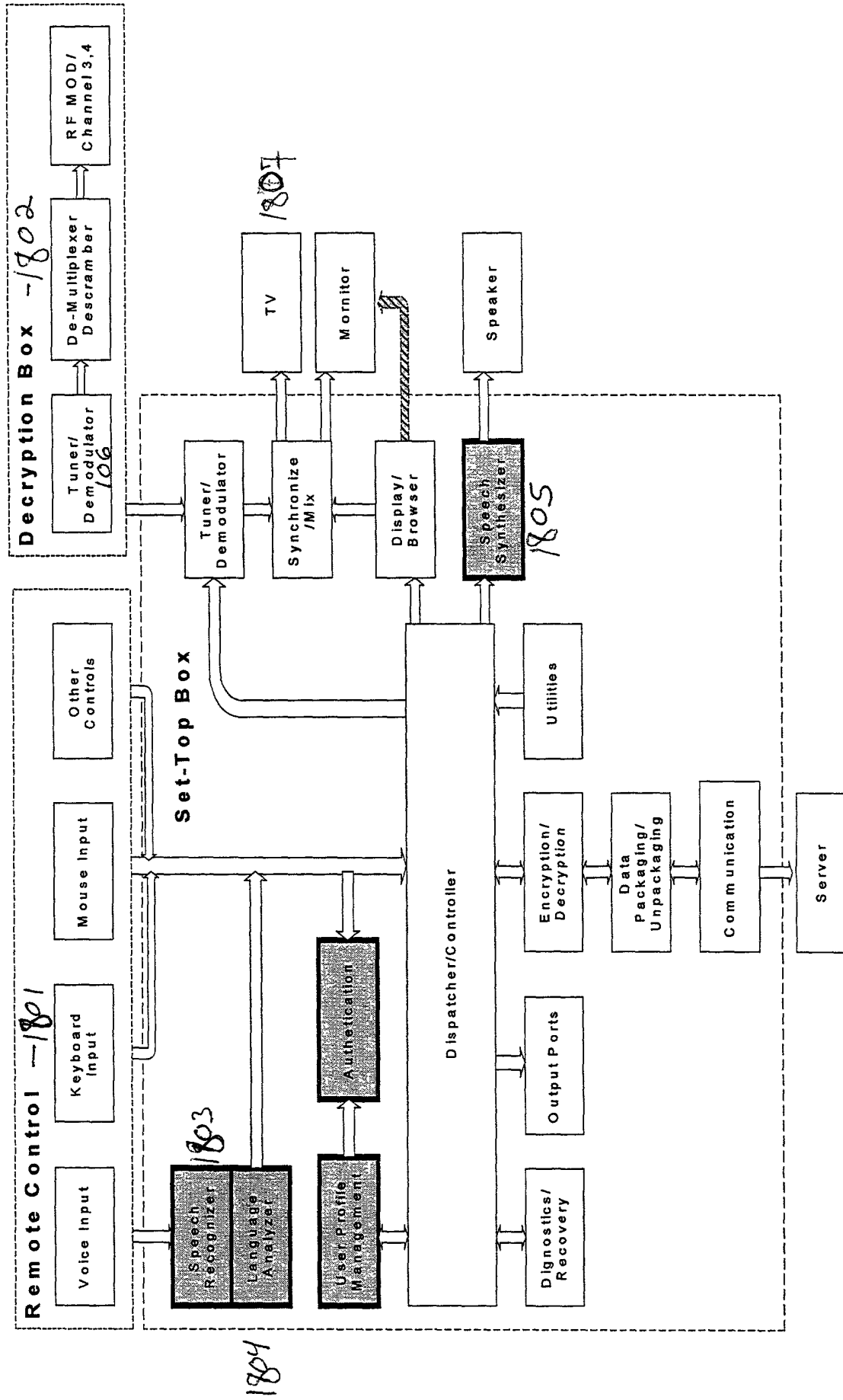


FIGURE 18